

## Complete Summary

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### TITLE

Lipid screening in adults: percentage of adults with a cholesterol test (total cholesterol and high-density lipoprotein [HDL]-cholesterol) in the last five years.

### SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Lipid screening in adults. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Jun. 18 p. [18 references]

## Brief Abstract

### DESCRIPTION

This measure assesses the percentage of adults with a cholesterol test (total cholesterol and high-density lipoprotein [HDL]-cholesterol) in the last five years.

### RATIONALE

The priority aim addressed by this measure is to increase the percentage of adults with appropriate methods and frequency of cholesterol screening.

### PRIMARY CLINICAL COMPONENT

Lipid screening; total cholesterol; high-density lipoprotein-cholesterol

### DENOMINATOR DESCRIPTION

Number of men over age 34 years and women over age 44 years whose charts are abstracted\*

\*A random sample of all patients (men over age 34 and women over age 44) seen by the medical group in a month.

### NUMERATOR DESCRIPTION

Number of people sampled in the denominator who have had a cholesterol test that included total cholesterol and high-density lipoprotein (HDL)-cholesterol in the prior 5 years (see the related "Numerator Inclusions/Exclusions" field in the Complete Summary)

## Evidence Supporting the Measure

### PRIMARY MEASURE DOMAIN

Process

### SECONDARY MEASURE DOMAIN

Not applicable

### EVIDENCE SUPPORTING THE MEASURE

A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence

### NATIONAL GUIDELINE CLEARINGHOUSE LINK

- [Lipid screening in adults.](#)

## Evidence Supporting Need for the Measure

### NEED FOR THE MEASURE

Unspecified

## State of Use of the Measure

### STATE OF USE

Current routine use

### CURRENT USE

Internal quality improvement

## Application of Measure in its Current Use

### CARE SETTING

Physician Group Practices/Clinics

### PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Physicians

### LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Group Clinical Practices

#### TARGET POPULATION AGE

- Men age greater than 34 years
- Women age greater than 44 years

#### TARGET POPULATION GENDER

Either male or female

#### STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

### Characteristics of the Primary Clinical Component

#### INCIDENCE/PREVALENCE

Unspecified

#### ASSOCIATION WITH VULNERABLE POPULATIONS

Unspecified

#### BURDEN OF ILLNESS

Elevated cholesterol increases the risk for coronary heart disease (CHD). Measurement of serum high-density lipoprotein (HDL)-cholesterol is recommended because low HDL-cholesterol is now classified as a major risk factor for CHD and because high HDL-cholesterol appears to offer protection against CHD. Lipid testing is important because elevated low-density lipoprotein (LDL), elevated triglycerides, or low HDL are risk factors for vascular disease.

#### EVIDENCE FOR BURDEN OF ILLNESS

Institute for Clinical Systems Improvement (ICSI). Lipid screening in adults. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Jun. 18 p. [18 references]

#### UTILIZATION

Unspecified

#### COSTS

Unspecified

### Institute of Medicine National Healthcare Quality Report Categories

#### IOM CARE NEED

Staying Healthy

IOM DOMAIN

Effectiveness

#### Data Collection for the Measure

#### CASE FINDING

Users of care only

#### DESCRIPTION OF CASE FINDING

Men over age 34 and women over age 44 who had an encounter in the last month

A monthly data collection of a random sample of at least 10 patients is suggested. The data may be collected by chart abstractor or with administrative systems augmented by chart audit. Administrative systems alone are unlikely to have the history for 5 years of all individuals sampled.

To be included in the numerator, the individual needs to have the test results and a date of the test. The test result may include more information than total cholesterol and high-density lipoprotein (HDL)-cholesterol, but it must include total cholesterol and HDL-cholesterol to be included in the numerator.

A lack of test data for an individual means the individual is not counted as being screened in the last five years.

#### DENOMINATOR SAMPLING FRAME

Patients associated with provider

#### DENOMINATOR (INDEX) EVENT

Encounter

#### DENOMINATOR INCLUSIONS/EXCLUSIONS

##### Inclusions

Number of men over age 34 years and women over age 44 years whose charts are abstracted\*

\*A random sample of all patients (men over age 34 and women over age 44) seen by the medical group in a month.

##### Exclusions

Unspecified

#### NUMERATOR INCLUSIONS/EXCLUSIONS

## Inclusions

Number of people sampled in the denominator who have had a cholesterol test\* that included total cholesterol and high-density lipoprotein (HDL)-cholesterol in the prior 5 years

\*This may be demonstrated either with the Current Procedure Terminology (CPT-4) codes below (administratively) or with listing of the total cholesterol and HDL-cholesterol levels and dates (by chart audit).

CPT-4 codes:

- 80061 Lipid Profile - this is the desired measurement
- 83718 Lipoprotein, direct measurement: HDL
- 83719 & very low-density lipoprotein (VLDL)
- 83721 & low-density lipoprotein (LDL)

## Exclusions

Unspecified

## DENOMINATOR TIME WINDOW

Time window is a single point in time

## NUMERATOR TIME WINDOW

Fixed time period

## DATA SOURCE

Administrative data  
Medical record

## LEVEL OF DETERMINATION OF QUALITY

Individual Case

## PRE-EXISTING INSTRUMENT USED

Unspecified

## Computation of the Measure

## SCORING

Rate

## INTERPRETATION OF SCORE

Better quality is associated with a higher score

## ALLOWANCE FOR PATIENT FACTORS

Unspecified

## STANDARD OF COMPARISON

Internal time comparison

## Evaluation of Measure Properties

## EXTENT OF MEASURE TESTING

Unspecified

## Identifying Information

## ORIGINAL TITLE

Percentage of adults with a cholesterol test (total cholesterol and HDL-cholesterol) in the last five years.

## MEASURE COLLECTION

[Lipid Screening in Adults Measures](#)

## DEVELOPER

Institute for Clinical Systems Improvement

## ADAPTATION

Measure was not adapted from another source.

## RELEASE DATE

2004 Jun

## MEASURE STATUS

This is the current release of the measure.

## SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Lipid screening in adults. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Jun. 18 p. [18 references]

## MEASURE AVAILABILITY

The individual measure, "Percentage of adults with a cholesterol test (total cholesterol and HDL-cholesterol) in the last five years," is published in "Health Care Guideline: Lipid Screening in Adults." This document is available from the [Institute for Clinical Systems Improvement \(ICSI\) Web site](#).

For more information, contact ICSI at, 8009 34th Avenue South, Suite 1200, Bloomington, MN 55425; phone: 952-814-7060; fax: 952-858-9675; Web site: [www.icsi.org](http://www.icsi.org); e-mail: [icsi.info@icsi.org](mailto:icsi.info@icsi.org).

## NQMC STATUS

This NQMC summary was completed by ECRI on September 13, 2004.

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